

DECLARATION FOR PATENT APPLICATION SOLE OR JOINT

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention titled:

Sputtering Target Compositions, and Methods of Inhibiting Copper Diffusion Into a Substrate

the specification of which is attached hereto unless the following box is checked.

[X] was filed on 31 May 01 as PCT International Application Number PCT/US01/17996.

I HEREBY STATE THAT I HAVE REVIEWED AND UNDERSTAND THE CONTENTS OF THE ABOVE-IDENTIFIED SPECIFICATION, INCLUDING THE CLAIMS.

I ACKNOWLEDGE THE DUTY TO DISCLOSE INFORMATION THAT IS MATERIAL TO THE PATENTABILITY OF THIS APPLICATION IN ACCORDANCE WITH TITLE 37, CODE OF FEDERAL REGULATIONS, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed; additionally, I hereby claim priority to any U.S. Provisional application listed below:

Prior Foreign Application(s) and/or U.S. Provisional Application(s)

| | | | Priority Claimed | |
|-----------------------------|-----------------------------|-----------------------------|---|-----------------------------|
| <u>60/225,518</u> | <u>USA</u> | <u>August 15, 2000</u> | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| (Number) | (Country) | (Day/Month/Year Filed) | | |
| <u> </u> | <u> </u> | <u> </u> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| (Number) | (Country) | (Day/Month/Year Filed) | | |
| <u> </u> | <u> </u> | <u> </u> | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| (Number) | (Country) | (Day/Month/Year Filed) | | |

I hereby claim the benefit under Title 35, United States Code, §120 of any United States applications listed below and, IN SO FAR AS THE SUBJECT MATTER OF EACH OF THE CLAIMS OF THIS APPLICATION IS NOT DISCLOSED IN THE PRIOR UNITED STATES APPLICATION IN THE MANNER PROVIDED BY THE FIRST PARAGRAPH OF TITLE 35, UNITED STATES CODE, §112, I ACKNOWLEDGE THE DUTY TO DISCLOSE MATERIAL INFORMATION AS DEFINED IN TITLE 37, CODE OF FEDERAL REGULATIONS, §1.56(a) WHICH OCCURRED BETWEEN THE FILING DATE OF THE PRIOR APPLICATION AND THE NATIONAL OR PCT INTERNATIONAL FILING DATE OF THIS APPLICATION:

| | | |
|-----------------------------|-----------------------------|--|
| <u> </u> | <u> </u> | <u> </u> |
| (Application Serial Number) | (Filing Date) | (STATUS: Patented, Pending, Abandoned) |
| <u> </u> | <u> </u> | <u> </u> |
| (Application Serial Number) | (Filing Date) | (STATUS: Patented, Pending, Abandoned) |

SEND CORRESPONDENCE TO:

David G. Latwesen, Ph.D.
Wells, St. John, Roberts, Gregory & Matkin P.S.
601 West First Avenue, Suite 1300
Spokane, WA 99201

DIRECT TELEPHONE CALLS TO:

(509) 624-4276

EV182658987
EL979954482

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF SOLE OR FIRST INVENTOR Jianxing Li
INVENTOR'S SIGNATURE [Signature] Date 7/23/01
RESIDENCE Spokane, Washington, USA
CITIZENSHIP USA
POST OFFICE ADDRESS 4908 N. Calvin
Spokane, WA 99216

FULL NAME OF SECOND JOINT INVENTOR Stephen Turner
INVENTOR'S SIGNATURE _____ Date _____
RESIDENCE Moon Township, Pennsylvania, USA
CITIZENSHIP UK
POST OFFICE ADDRESS 4026 Turnwood Lane
Moon Township, PA 15108

FULL NAME OF THIRD JOINT INVENTOR Lijun Yao
INVENTOR'S SIGNATURE _____ Date _____
RESIDENCE Niigata, Japan
CITIZENSHIP Japan
POST OFFICE ADDRESS 1 Fukuda, Joetsu, Niigata
942-8611 Japan

FULL NAME OF FOURTH JOINT INVENTOR _____
INVENTOR'S SIGNATURE _____ Date _____
RESIDENCE _____
CITIZENSHIP _____
POST OFFICE ADDRESS _____

FULL NAME OF FIFTH JOINT INVENTOR _____
INVENTOR'S SIGNATURE _____ Date _____
RESIDENCE _____
CITIZENSHIP _____
POST OFFICE ADDRESS _____

FULL NAME OF SIXTH JOINT INVENTOR _____
INVENTOR'S SIGNATURE _____ Date _____
RESIDENCE _____
CITIZENSHIP _____
POST OFFICE ADDRESS _____

FULL NAME OF SEVENTH JOINT INVENTOR _____
INVENTOR'S SIGNATURE _____ Date _____
RESIDENCE _____
CITIZENSHIP _____
POST OFFICE ADDRESS _____

DECLARATION FOR PATENT APPLICATION—SOLE OR JOINT (Continued)

Attorney's Docket No.: 30-5082 — Page 3

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected herewith (List name and registration number).

(LIST SENIOR PATENT COUNSEL AND ATTORNEY HANDLING CASE WITH PATENT OFFICE REGISTRATION NUMBERS.)

Mary Ann Lemere

Name

32,160

Registration Number

David P. Roberts

Name

23,032

Registration Number

Mark S. Matkin

Name

32,268

Registration Number

Mark Hendricksen

Name

32,356

Registration Number

Keith D. Grzelak

Name

37,144

Registration Number

D. Brent Kenady

Name

40,045

Registration Number

Name

Registration Number

Name

Registration Number

Name

Registration Number

Shannon Morris

Name

42,909

Registration Number

Randy A. Gregory

Name

30,386

Registration Number

James L. Price

Name

27,376

Registration Number

David G. Latwesen, Ph.D.

Name

38,533

Registration Number

James D. Shaurette

Name

39,833

Registration Number

James E. Lake

Name

44,854

Registration Number

Name

Registration Number

Name

Registration Number

Name

Registration Number

Curt Brueske

Name

33,839

Registration Number

Deepak Malhotra

Name

33,560

Registration Number

George G. Grigel

Name

31,166

Registration Number

Frederick M. Fliegel

Name

36,138

Registration Number

Bernard Berman

Name

37,279

Registration Number

Name

Registration Number

Name

Registration Number

Name

Registration Number

DECLARATION FOR PATENT APPLICATION SOLE OR JOINT

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention titled:

Sputtering Target Compositions, and Methods of Inhibiting Copper Diffusion Into a Substrate

the specification of which is attached hereto unless the following box is checked.

[X] was filed on 31 May 01 as PCT International Application Number PCT/US01/17996.

I HEREBY STATE THAT I HAVE REVIEWED AND UNDERSTAND THE CONTENTS OF THE ABOVE-IDENTIFIED SPECIFICATION, INCLUDING THE CLAIMS.

I ACKNOWLEDGE THE DUTY TO DISCLOSE INFORMATION THAT IS MATERIAL TO THE PATENTABILITY OF THIS APPLICATION IN ACCORDANCE WITH TITLE 37, CODE OF FEDERAL REGULATIONS, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed; additionally, I hereby claim priority to any U.S. Provisional application listed below:

Prior Foreign Application(s) and/or U.S. Provisional Application(s)

| | | | Priority Claimed | |
|-----------------------------|-----------------------------|-----------------------------|-------------------------------------|--------------------------|
| <u>60/225,518</u> | <u>USA</u> | <u>August 15, 2000</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (Number) | (Country) | (Day/Month/Year Filed) | Yes | No |
| <u> </u> | <u> </u> | <u> </u> | <input type="checkbox"/> | <input type="checkbox"/> |
| (Number) | (Country) | (Day/Month/Year Filed) | Yes | No |
| <u> </u> | <u> </u> | <u> </u> | <input type="checkbox"/> | <input type="checkbox"/> |
| (Number) | (Country) | (Day/Month/Year Filed) | Yes | No |

I hereby claim the benefit under Title 35, United States Code, §120 of any United States applications listed below and, INsofar AS THE SUBJECT MATTER OF EACH OF THE CLAIMS OF THIS APPLICATION IS NOT DISCLOSED IN THE PRIOR UNITED STATES APPLICATION IN THE MANNER PROVIDED BY THE FIRST PARAGRAPH OF TITLE 35, UNITED STATES CODE, §112, I ACKNOWLEDGE THE DUTY TO DISCLOSE MATERIAL INFORMATION AS DEFINED IN TITLE 37, CODE OF FEDERAL REGULATIONS, §1.56(a) WHICH OCCURRED BETWEEN THE FILING DATE OF THE PRIOR APPLICATION AND THE NATIONAL OR PCT INTERNATIONAL FILING DATE OF THIS APPLICATION:

| | | |
|---|---|---|
| <u> </u> | <u> </u> | <u> </u> |
| (Application Serial Number) | (Filing Date) | (STATUS: Patented, Pending, Abandoned) |
| <u> </u> | <u> </u> | <u> </u> |
| (Application Serial Number) | (Filing Date) | (STATUS: Patented, Pending, Abandoned) |

SEND CORRESPONDENCE TO:

David G. Latwesen, Ph.D.
Wells, St. John, Roberts, Gregory & Matkin P.S.
601 West First Avenue, Suite 1300
Spokane, WA 99201

DIRECT TELEPHONE CALLS TO:

(509) 624-4276

EV182658987
EL979954482

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF SOLE OR FIRST INVENTOR Jianxing Li
INVENTOR'S SIGNATURE _____ Date _____
RESIDENCE Spokane, Washington, USA
CITIZENSHIP USA
POST OFFICE ADDRESS 4908 N. Calvin
Spokane, WA 99216

FULL NAME OF SECOND JOINT INVENTOR Stephen Turner
INVENTOR'S SIGNATURE Stephen Turner Date 8/2/01
RESIDENCE Moon Township, Pennsylvania, USA
CITIZENSHIP UK
POST OFFICE ADDRESS 4026 Turnwood Lane
Moon Township, PA 15108

FULL NAME OF THIRD JOINT INVENTOR Lijun Yao
INVENTOR'S SIGNATURE _____ Date _____
RESIDENCE Niigata, Japan
CITIZENSHIP Japan
POST OFFICE ADDRESS 1 Fukuda, Joetsu, Niigata
942-8611 Japan

FULL NAME OF FOURTH JOINT INVENTOR _____
INVENTOR'S SIGNATURE _____ Date _____
RESIDENCE _____
CITIZENSHIP _____
POST OFFICE ADDRESS _____

FULL NAME OF FIFTH JOINT INVENTOR _____
INVENTOR'S SIGNATURE _____ Date _____
RESIDENCE _____
CITIZENSHIP _____
POST OFFICE ADDRESS _____

FULL NAME OF SIXTH JOINT INVENTOR _____
INVENTOR'S SIGNATURE _____ Date _____
RESIDENCE _____
CITIZENSHIP _____
POST OFFICE ADDRESS _____

FULL NAME OF SEVENTH JOINT INVENTOR _____
INVENTOR'S SIGNATURE _____ Date _____
RESIDENCE _____
CITIZENSHIP _____
POST OFFICE ADDRESS _____

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected herewith (List name and registration number).

(LIST SENIOR PATENT COUNSEL AND ATTORNEY HANDLING CASE WITH PATENT OFFICE REGISTRATION NUMBERS.)

Mary Ann Lemere

Name

32,160

Registration Number

David P. Roberts

Name

23,032

Registration Number

Mark S. Matkin

Name

32,268

Registration Number

Mark Hendricksen

Name

32,356

Registration Number

Keith D. Grzelak

Name

37,144

Registration Number

D. Brent Kenady

Name

40,045

Registration Number

Name

Registration Number

Name

Registration Number

Name

Registration Number

Shannon Morris

Name

42,909

Registration Number

Randy A. Gregory

Name

30,386

Registration Number

James L. Price

Name

27,376

Registration Number

David G. Latwesen, Ph.D.

Name

38,533

Registration Number

James D. Shaurette

Name

39,833

Registration Number

James E. Lake

Name

44,854

Registration Number

Name

Registration Number

Name

Registration Number

Name

Registration Number

Curt Brueske

Name

33,839

Registration Number

Deepak Malhotra

Name

33,560

Registration Number

George G. Grigel

Name

31,166

Registration Number

Frederick M. Fliegel

Name

36,138

Registration Number

Bernard Berman

Name

37,279

Registration Number

Name

Registration Number

Name

Registration Number

Name

Registration Number

DECLARATION FOR PATENT APPLICATION SOLE OR JOINT

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention titled:

Sputtering Target Compositions, and Methods of Inhibiting Copper Diffusion Into a Substrate

the specification of which is attached hereto unless the following box is checked.

[X] was filed on 31 May 01 as PCT International Application Number PCT/US01/17996.

I HEREBY STATE THAT I HAVE REVIEWED AND UNDERSTAND THE CONTENTS OF THE ABOVE-IDENTIFIED SPECIFICATION, INCLUDING THE CLAIMS.

I ACKNOWLEDGE THE DUTY TO DISCLOSE INFORMATION THAT IS MATERIAL TO THE PATENTABILITY OF THIS APPLICATION IN ACCORDANCE WITH TITLE 37, CODE OF FEDERAL REGULATIONS, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed; additionally, I hereby claim priority to any U.S. Provisional application listed below:

Prior Foreign Application(s) and/or U.S. Provisional Application(s)

| | | | Priority Claimed | |
|-----------------------------|-----------------------------|-----------------------------|-------------------------------------|--------------------------|
| <u>60/225,518</u> | <u>USA</u> | <u>August 15, 2000</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| (Number) | (Country) | (Day/Month/Year Filed) | Yes | No |
| <u> </u> | <u> </u> | <u> </u> | <input type="checkbox"/> | <input type="checkbox"/> |
| (Number) | (Country) | (Day/Month/Year Filed) | Yes | No |
| <u> </u> | <u> </u> | <u> </u> | <input type="checkbox"/> | <input type="checkbox"/> |
| (Number) | (Country) | (Day/Month/Year Filed) | Yes | No |

I hereby claim the benefit under Title 35, United States Code, §120 of any United States applications listed below and, IN SO FAR AS THE SUBJECT MATTER OF EACH OF THE CLAIMS OF THIS APPLICATION IS NOT DISCLOSED IN THE PRIOR UNITED STATES APPLICATION IN THE MANNER PROVIDED BY THE FIRST PARAGRAPH OF TITLE 35, UNITED STATES CODE, §112, I ACKNOWLEDGE THE DUTY TO DISCLOSE MATERIAL INFORMATION AS DEFINED IN TITLE 37, CODE OF FEDERAL REGULATIONS, §1.56(a) WHICH OCCURRED BETWEEN THE FILING DATE OF THE PRIOR APPLICATION AND THE NATIONAL OR PCT INTERNATIONAL FILING DATE OF THIS APPLICATION:

| | | |
|---|---|---|
| <u> </u> | <u> </u> | <u> </u> |
| (Application Serial Number) | (Filing Date) | (STATUS: Patented, Pending, Abandoned) |
| <u> </u> | <u> </u> | <u> </u> |
| (Application Serial Number) | (Filing Date) | (STATUS: Patented, Pending, Abandoned) |

SEND CORRESPONDENCE TO:

David G. Latwesen, Ph.D.
Wells, St. John, Roberts, Gregory & Matkin P.S.
601 West First Avenue, Suite 1300
Spokane, WA 99201

DIRECT TELEPHONE CALLS TO:

(509) 624-4276

EV182658987
EL979954482

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF SOLE OR FIRST INVENTOR Jianxing Li
INVENTOR'S SIGNATURE _____ Date _____
RESIDENCE Spokane, Washington, USA
CITIZENSHIP USA
POST OFFICE ADDRESS 4908 N. Calvin
Spokane, WA 99216

FULL NAME OF SECOND JOINT INVENTOR Stephen Turner
INVENTOR'S SIGNATURE _____ Date _____
RESIDENCE Moon Township, Pennsylvania, USA
CITIZENSHIP UK
POST OFFICE ADDRESS 4026 Turnwood Lane
Moon Township, PA 15108

FULL NAME OF THIRD JOINT INVENTOR Lijun Yao
INVENTOR'S SIGNATURE *Lijun Yao* Date August 6, 2001
RESIDENCE Niigata, Japan
CITIZENSHIP Japan
POST OFFICE ADDRESS 1 Fukuda, Joetsu, Niigata
942-8611 Japan

FULL NAME OF FOURTH JOINT INVENTOR _____
INVENTOR'S SIGNATURE _____ Date _____
RESIDENCE _____
CITIZENSHIP _____
POST OFFICE ADDRESS _____

FULL NAME OF FIFTH JOINT INVENTOR _____
INVENTOR'S SIGNATURE _____ Date _____
RESIDENCE _____
CITIZENSHIP _____
POST OFFICE ADDRESS _____

FULL NAME OF SIXTH JOINT INVENTOR _____
INVENTOR'S SIGNATURE _____ Date _____
RESIDENCE _____
CITIZENSHIP _____
POST OFFICE ADDRESS _____

FULL NAME OF SEVENTH JOINT INVENTOR _____
INVENTOR'S SIGNATURE _____ Date _____
RESIDENCE _____
CITIZENSHIP _____
POST OFFICE ADDRESS _____

DECLARATION FOR PATENT APPLICATION—SOLE OR JOINT (Continued)

Attorney's Docket No.: 30-5082 - Page 3

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected herewith (List name and registration number).

(LIST SENIOR PATENT COUNSEL AND ATTORNEY HANDLING CASE WITH PATENT OFFICE REGISTRATION NUMBERS.)

Mary Ann Lemere

Name

32,160

Registration Number

David P. Roberts

Name

23,032

Registration Number

Mark S. Matkin

Name

32,268

Registration Number

Mark Hendricksen

Name

32,356

Registration Number

Keith D. Grzelak

Name

37,144

Registration Number

D. Brent Kenady

Name

40,045

Registration Number

Name

Registration Number

Name

Registration Number

Name

Registration Number

Shannon Morris

Name

42,909

Registration Number

Randy A. Gregory

Name

30,386

Registration Number

James L. Price

Name

27,376

Registration Number

David G. Latwesen, Ph.D.

Name

38,533

Registration Number

James D. Shaurette

Name

39,833

Registration Number

James E. Lake

Name

44,854

Registration Number

Name

Registration Number

Name

Registration Number

Name

Registration Number

Curt Brueske

Name

33,839

Registration Number

Deepak Malhotra

Name

33,560

Registration Number

George G. Grigel

Name

31,166

Registration Number

Frederick M. Fliegel

Name

36,138

Registration Number

Bernard Berman

Name

37,279

Registration Number

Name

Registration Number

Name

Registration Number

Name

Registration Number